



TrollLight

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TOOLS:

- [Hot Glue gun & hot glue \(1\)](#)
- [ceramic mug \(1\)](#)
- [metal spoon \(1\)](#)



PARTS:

- [Tap water \(1\)](#)
- [ShapeLock \(1\)](#)
[available in the Maker Shed](#)
- [Troll doll \(1\)](#)
[Use this link to get 12 dolls for ~\\$9!:http://www.ebay.com/itm/Vintage-Treasure-Jeweled-Good-Luck-Troll-Dolls-12-piece-Lot-New-Old-Stock-/230833875411?pt=LH_DefaultDomain_0&hash=item35bec569d3](#)
- [Pennies or small weights \(1\)](#)
- [neodymium magnetic button \(8mm diameter\) \(1\)](#)
- [Submersible LED sphere light \(1\)](#)

SUMMARY

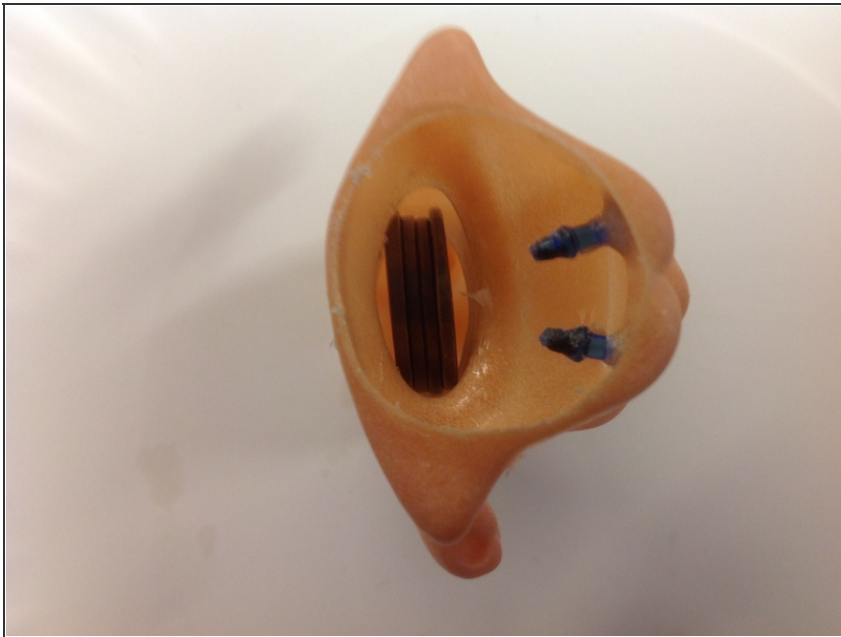
Trolls are cute! You can update your Troll so that it lights up with LEDs! They can then be used as nightlights, bath toys, Christmas ornaments or Halloween decor. Learn to use the new polymer material called [ShapeLock](#)!

Step 1 — TrollLight



- Purchase troll (smallest troll works best=> ~3" plastic body) and pull hair off.

Step 2



- After hair is removed from troll, add pennies to weigh down the troll. 4 pennies fit nicely in the troll trunk.

Step 3



- Place LED sphere on Troll head so that button is accessible on back of head. Decide which button position works best for your finger size.

Step 4



- Heat about 4 Tablespoons of ShapeLock in a ceramic (plastic will not work) cup of water for two minutes. Use a metal spoon (plastic will not work) to flatten and elongate the material. Make it as thin as you can.

Step 5



- ShapeLock hardens quickly so you may need to reheat it for 2 minutes before you apply it to the LED sphere. If the material is transparent and the correct size to wrap around the sphere, you are ready for the next step.

Step 6



- Wrap the soft ShapeLock material around the LED sphere with your hands (exercise caution since it may be hot). Ensure that the LED button is exposed before securing the head onto the Troll body.

Step 7



- Quickly orient the ShapeLock around the LED sphere and Troll head so that it is securely attached by kneading the material to areas near the edge of the Troll head.

Step 8



- As you see in this image keeping the LED sphere button clear of plastic is critical. Once the plastic hardens it is very tedious to remove it.

Step 9



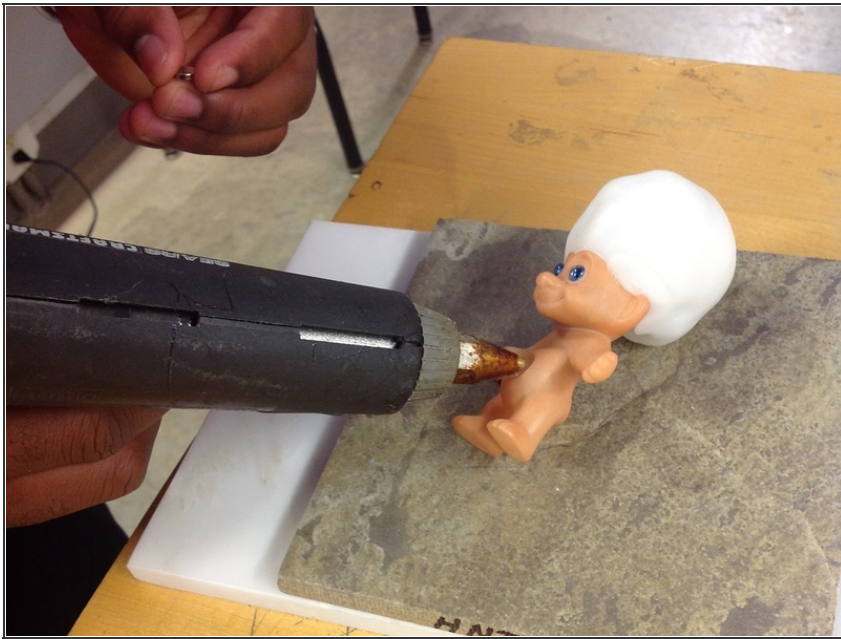
- If the head is not to your liking (or too heavy for the troll), do not put the head into the microwave! This will destroy the LED .
Microwave(~2 minutes) a cup of water separately. Then soak the LED sphere in the hot water to soften the polymer and knead off the polymer one softened layer at a time. You may need to repeat this step multiple times.

Step 10



- You can use the belly button area to glue a magnet or jewel. I like magnets since I can hang small notes on him with other magnets or belly button jewelry. A 8mm magnet will fit perfectly in his belly.

Step 11



- Apply a drop of glue using a glue gun and place the magnet in his belly button before the glue hardens.

Step 12



- Remove residual glue with wet rag or sponge before it hardens.

Step 13



- Your Troll is all dressed up now!
Pick his LED color by pressing the LED button multiple times and he is ready for his date.

This document was last generated on 2012-11-02 11:35:06 PM.